## Lyal Burkholder Middle School Clark County School District Henderson, Nevada



Energy Use Intensity = 78.9 kBtu/sf/yr Percent CO2 Reduction = 38% ENERGY STAR design rating = 89

Savings Statistics (compared to an average building EPA rating of 50) Energy Savings = 5,436,727 kBtu CO2 Savings = 657,500 lbs CO2

- 112,000 sf total (25,500 sf refurbished; 86,000 sf new)
  100% educational space
- Construction to be completed June, 2007
- \$76,617 annual energy cost; \$0.68/sf/yr
- Estimated energy use 26.2 kbtu/sf/yr
- Geothermal Heat Exchange handles 60% of building cooling load, the remaining 40% is cooled with a cooling tower
- No boiler, all domestic hot water heated with building's own waste heat.
- 95% of classrooms and offices have natural daylight
- Design Includes:
  - Classrooms and offices on north and south have stepped switching for lighting and individual thermal controls
  - Major glazing occurs on north and south elevations only, with louvered shades along south elevation
  - Design includes restoration of existing gymnasium to preserve local heritage and reduce consumption of new materials

## A R C H I T E C T U R E 7373 Peak Drive Suite 250 Las Vegas Nevada 89128

ph 702.363.2222 fax 702.363.6060 www.sh-architecture.com